

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P671155

Luminaire Tested: **CCP-SA-2D-830-U-T4W**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671155
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-830-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4W distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

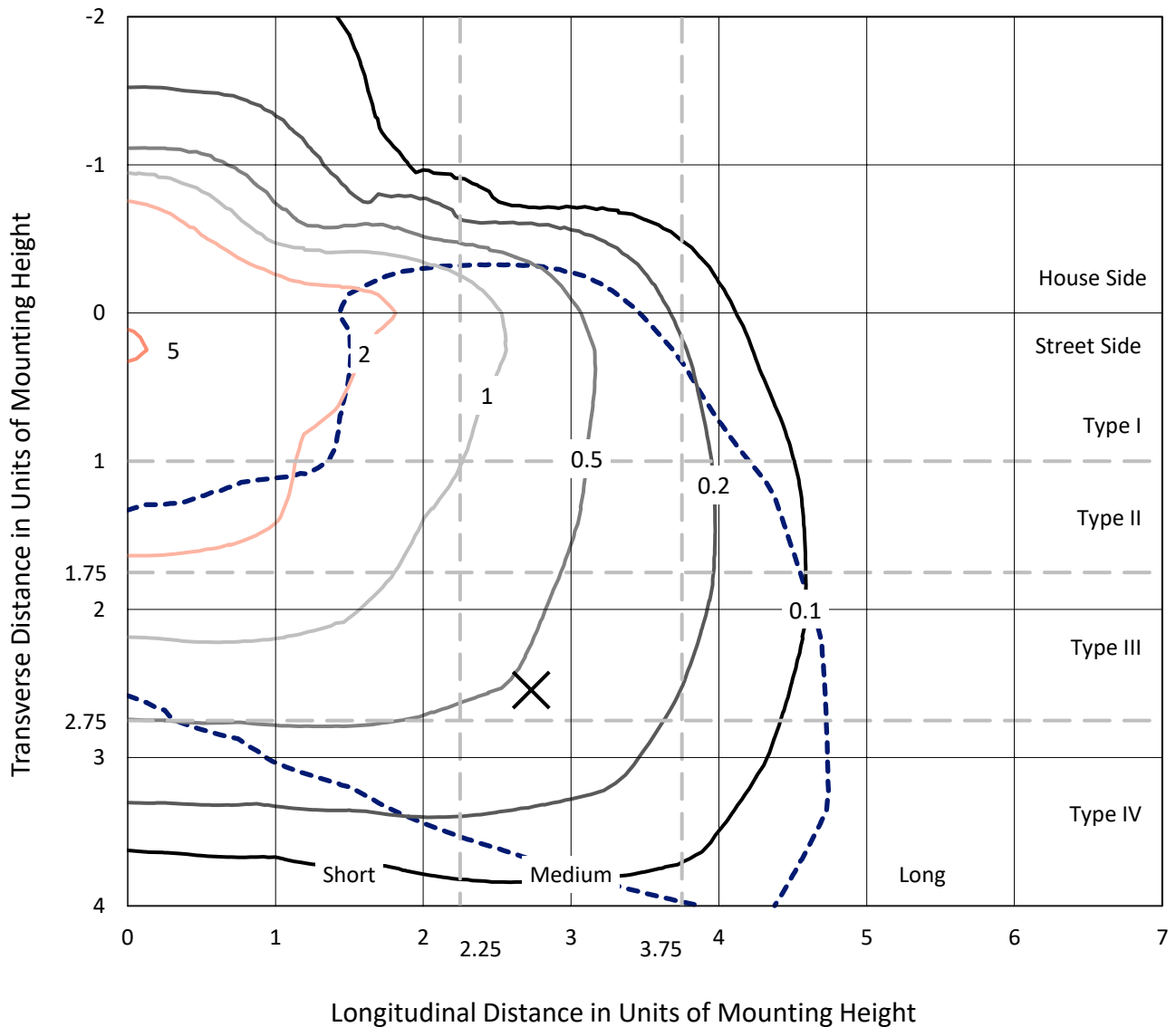
Lumens per Lamp: N/A
Luminaire Lumens: 8940.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

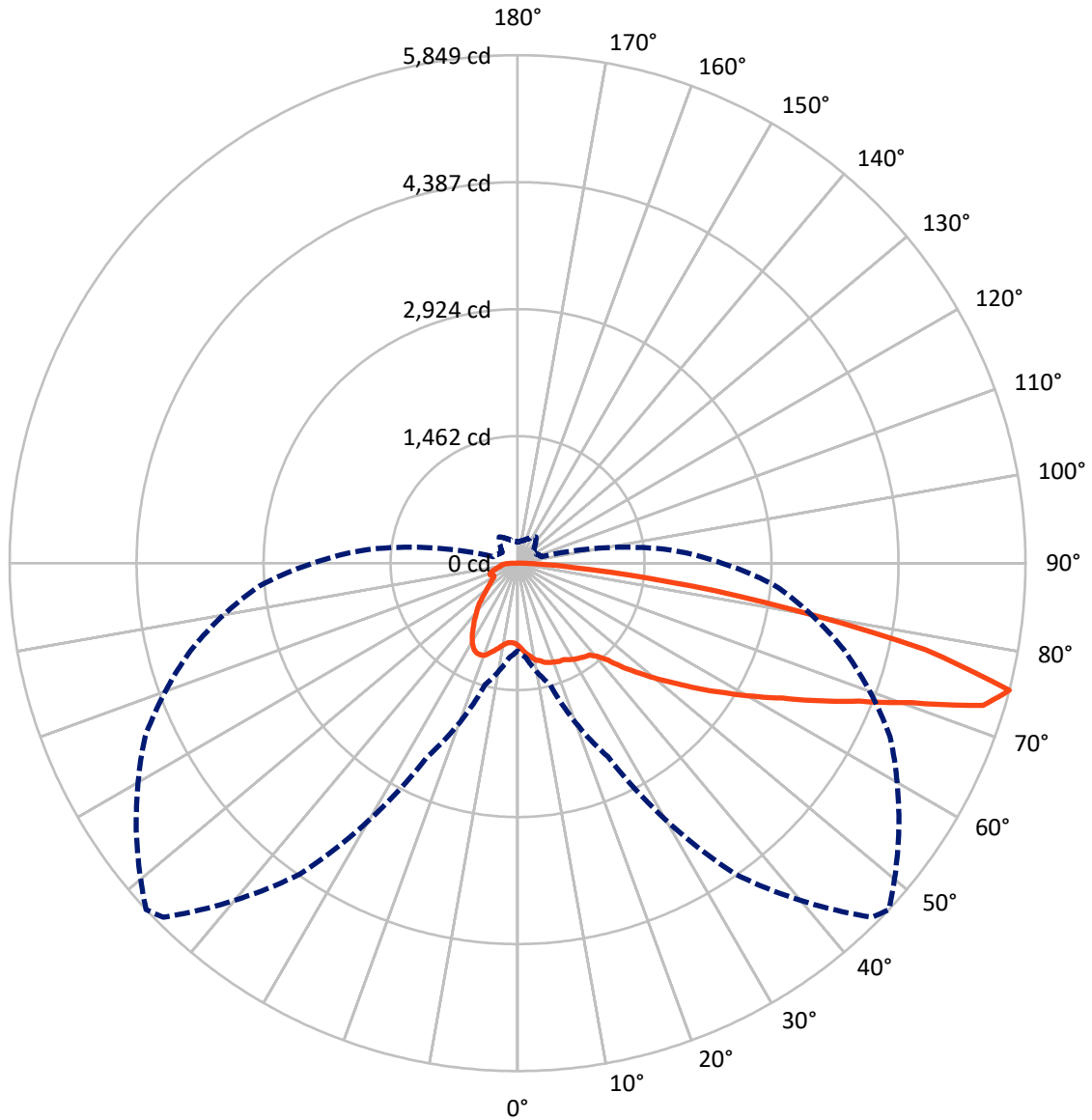
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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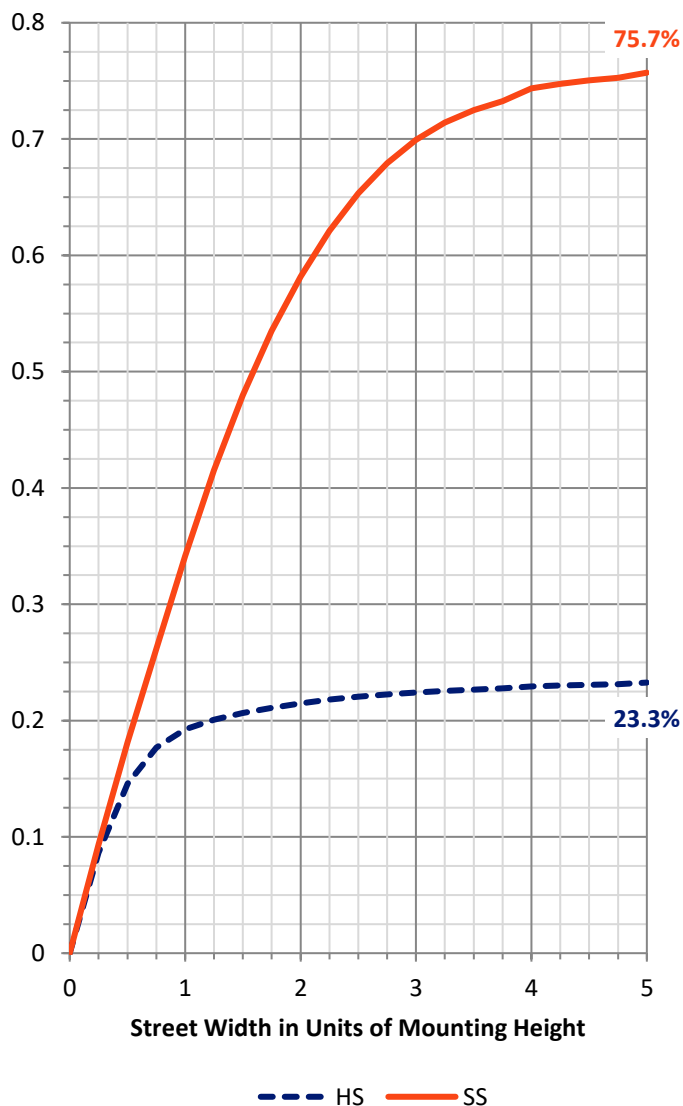
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.0	0.0	2138.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6802.2	0.0	6802.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	8940.2	0.0	8940.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.1
10°-20°	318.7	3.6
20°-30°	545.8	6.1
30°-40°	763.7	8.5
40°-50°	1064.9	11.9
50°-60°	1591.7	17.8
60°-70°	2294.8	25.7
70°-80°	1953.4	21.8
80°-90°	311.2	3.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8940.2	100.0
0°-180°	8940.2	100.0



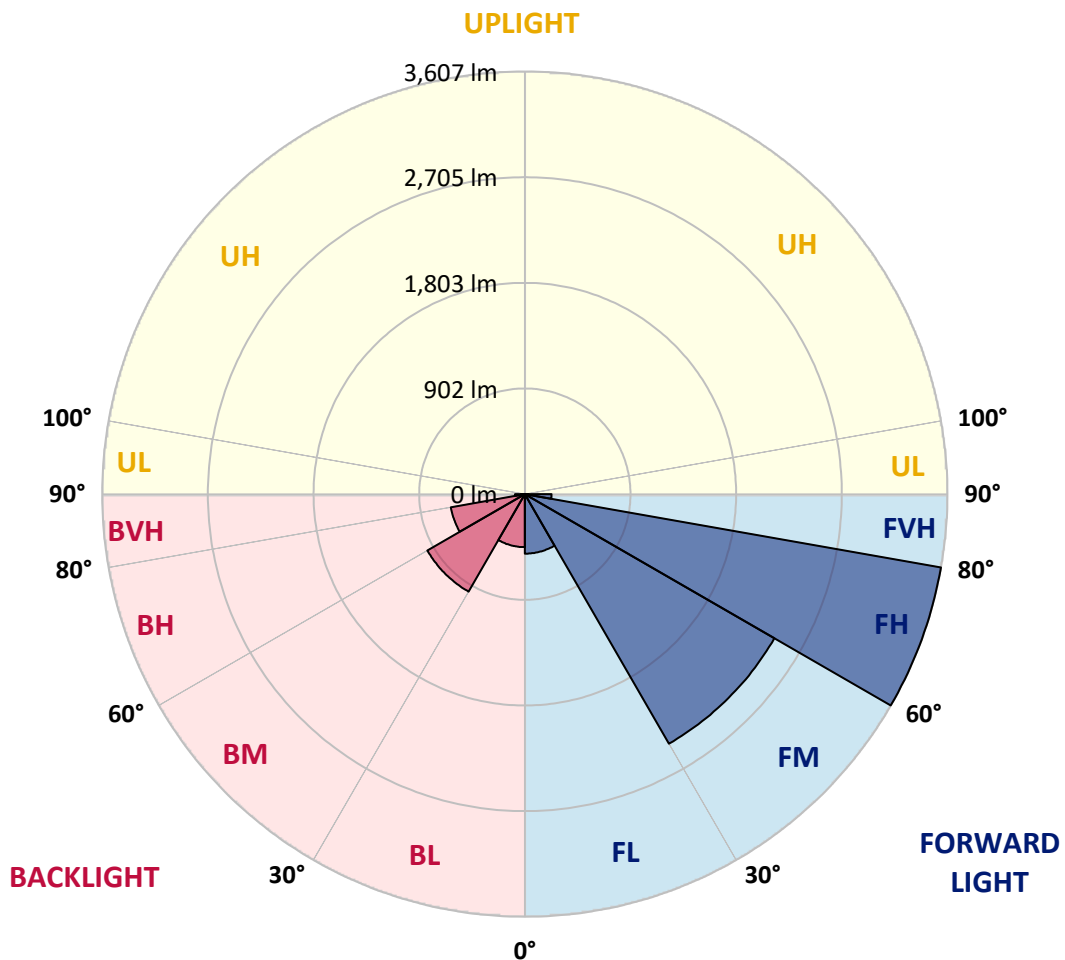
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.9	5.7			
FM (30°-60°)	2459.4	27.5			
FH (60°-80°)	3606.8	40.3			G2/5000
FVH (80°-90°)	228.0	2.6			G3/500
BL (0°-30°)	452.5	5.1	B1/500		
BM (30°-60°)	960.9	10.7	B1/1000		
BH (60°-80°)	641.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	83.2	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	1017.8	1021.0	1021.0	1014.5	1008.0	994.9	994.9	981.9	975.4	959.0	952.5
5°	1112.4	1102.6	1092.8	1089.5	1073.2	1050.4	1047.1	1034.1	998.2	981.9	959.0
7.5°	1180.9	1177.6	1174.3	1161.3	1131.9	1096.1	1086.3	1066.7	1030.8	998.2	972.1
10°	1236.3	1249.4	1236.3	1207.0	1177.6	1138.5	1135.2	1099.3	1066.7	1027.5	994.9
12.5°	1298.3	1301.6	1278.7	1242.8	1197.2	1164.6	1151.5	1138.5	1102.6	1070.0	1021.0
15°	1340.7	1334.2	1317.9	1268.9	1216.7	1184.1	1187.4	1171.1	1131.9	1109.1	1056.9
17.5°	1340.7	1340.7	1314.6	1278.7	1233.1	1203.7	1203.7	1193.9	1167.8	1135.2	1099.3
20°	1314.6	1314.6	1298.3	1278.7	1226.5	1220.0	1213.5	1207.0	1207.0	1177.6	1125.4
22.5°	1282.0	1275.5	1282.0	1249.4	1213.5	1220.0	1229.8	1226.5	1216.7	1190.7	1154.8
25°	1249.4	1252.6	1259.2	1236.3	1203.7	1233.1	1229.8	1246.1	1239.6	1220.0	1190.7
27.5°	1246.1	1252.6	1255.9	1233.1	1220.0	1246.1	1259.2	1275.5	1278.7	1259.2	1223.3
30°	1295.0	1291.8	1288.5	1259.2	1249.4	1272.2	1285.3	1308.1	1327.7	1285.3	1255.9
32.5°	1422.3	1402.7	1383.1	1304.8	1275.5	1291.8	1304.8	1337.4	1340.7	1317.9	1275.5
35°	1624.5	1611.5	1546.2	1409.2	1327.7	1311.3	1324.4	1347.2	1353.8	1337.4	1304.8
37.5°	1856.1	1849.6	1758.3	1591.9	1435.3	1357.0	1344.0	1376.6	1402.7	1366.8	1321.1
40°	2084.5	2058.4	1993.1	1830.0	1572.3	1425.5	1409.2	1425.5	1435.3	1409.2	1379.9
42.5°	2290.0	2260.6	2244.3	2081.2	1751.7	1539.7	1526.6	1487.5	1516.9	1484.2	1445.1
45°	2462.9	2456.3	2449.8	2309.5	1957.2	1725.6	1715.8	1614.7	1647.3	1621.2	1565.8
47.5°	2586.8	2616.2	2606.4	2528.1	2192.1	1924.6	1895.3	1764.8	1813.7	1787.6	1732.2
50°	2733.6	2749.9	2740.1	2687.9	2410.7	2153.0	2097.5	1963.8	2019.2	2016.0	1986.6
52.5°	2864.1	2913.0	2857.6	2854.3	2723.8	2400.9	2306.3	2179.1	2270.4	2306.3	2303.0
55°	3017.4	3056.6	3040.2	3033.7	3004.4	2642.3	2557.5	2404.1	2557.5	2609.6	2655.3
57.5°	3147.9	3144.6	3206.6	3281.6	3317.5	2919.5	2818.4	2639.0	2870.6	2929.3	3056.6
60°	3206.6	3262.1	3366.4	3555.6	3656.8	3216.4	3112.0	2968.5	3187.0	3232.7	3467.6
62.5°	3245.8	3294.7	3496.9	3816.6	3875.3	3519.8	3421.9	3278.4	3532.8	3565.4	3914.5
65°	3138.1	3183.8	3585.0	3914.5	4123.2	3846.0	3823.1	3673.1	3878.6	3898.2	4384.2
67.5°	3014.1	3063.1	3510.0	4038.4	4452.7	4279.8	4243.9	4064.5	4221.1	4198.3	4743.0
70°	2795.6	2860.8	3317.5	4146.1	4818.1	4886.6	4814.8	4560.4	4576.7	4361.4	4759.3
72.5°	2130.1	2172.5	2596.6	3718.7	4987.7	5728.2	5604.2	5095.3	4909.4	4394.0	4201.5
75°	1011.2	1089.5	1448.4	2459.6	4371.2	5767.3	5848.9	5359.6	4733.3	3898.2	2978.3
77.5°	293.6	293.6	440.4	1043.9	2740.1	4648.4	4801.8	4550.6	3904.7	2886.9	1565.8
80°	159.8	169.6	231.6	368.6	1203.7	2932.6	3154.4	3017.4	2299.8	1141.7	404.5
82.5°	91.3	94.6	153.3	221.8	548.0	1595.1	1725.6	1565.8	874.2	345.8	189.2
85°	52.2	55.5	88.1	146.8	326.2	587.2	639.4	554.6	352.3	231.6	94.6
87.5°	26.1	26.1	42.4	68.5	166.4	166.4	163.1	199.0	212.0	140.3	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	949.3	946.0	946.0	932.9	929.7	919.9	919.9	913.4	910.1	919.9	919.9
5°	952.5	936.2	932.9	919.9	923.2	916.6	929.7	923.2	919.9	919.9	916.6
7.5°	959.0	942.7	929.7	919.9	916.6	926.4	942.7	942.7	962.3	952.5	952.5
10°	975.4	965.6	949.3	942.7	942.7	952.5	972.1	985.1	1001.5	1001.5	991.7
12.5°	1014.5	998.2	978.6	968.8	981.9	991.7	1011.2	1024.3	1043.9	1050.4	1043.9
15°	1043.9	1027.5	1021.0	1014.5	1024.3	1037.3	1053.6	1066.7	1089.5	1096.1	1092.8
17.5°	1083.0	1063.4	1060.2	1063.4	1070.0	1079.7	1089.5	1099.3	1115.6	1115.6	1115.6
20°	1102.6	1096.1	1092.8	1102.6	1115.6	1128.7	1122.1	1115.6	1112.4	1118.9	1115.6
22.5°	1138.5	1131.9	1135.2	1145.0	1145.0	1138.5	1128.7	1105.8	1099.3	1105.8	1099.3
25°	1171.1	1164.6	1164.6	1158.0	1154.8	1131.9	1112.4	1092.8	1070.0	1079.7	1076.5
27.5°	1203.7	1200.4	1200.4	1174.3	1141.7	1102.6	1076.5	1053.6	1040.6	1056.9	1047.1
30°	1242.8	1246.1	1229.8	1167.8	1089.5	1047.1	1017.8	1014.5	1011.2	1021.0	1017.8
32.5°	1278.7	1282.0	1255.9	1158.0	1050.4	968.8	939.5	942.7	959.0	975.4	991.7
35°	1298.3	1314.6	1282.0	1125.4	972.1	880.8	848.1	877.5	906.9	929.7	946.0
37.5°	1334.2	1376.6	1321.1	1089.5	903.6	802.5	779.6	789.4	825.3	861.2	877.5
40°	1386.4	1435.3	1330.9	1021.0	812.3	724.2	711.1	714.4	727.4	750.3	766.6
42.5°	1477.7	1529.9	1340.7	932.9	720.9	675.2	639.4	629.6	619.8	619.8	616.5
45°	1611.5	1660.4	1327.7	822.0	629.6	597.0	570.9	548.0	521.9	479.5	486.0
47.5°	1807.2	1846.3	1337.4	724.2	544.8	518.7	499.1	473.0	433.9	388.2	384.9
50°	2104.0	2045.3	1324.4	623.1	482.8	460.0	443.6	407.8	362.1	329.5	326.2
52.5°	2449.8	2332.4	1311.3	538.2	430.6	411.0	398.0	358.8	316.4	300.1	296.8
55°	2867.4	2697.7	1330.9	463.2	391.4	375.1	362.1	326.2	293.6	280.5	277.3
57.5°	3359.9	3092.4	1438.6	404.5	349.0	342.5	339.3	309.9	280.5	270.8	267.5
60°	3823.1	3470.8	1510.3	362.1	309.9	316.4	322.9	309.9	277.3	270.8	270.8
62.5°	4211.3	3784.0	1396.2	326.2	290.3	309.9	339.3	329.5	316.4	322.9	316.4
65°	4553.8	3891.6	1043.9	306.6	280.5	326.2	375.1	371.9	342.5	349.0	345.8
67.5°	4612.6	3761.2	681.8	290.3	274.0	358.8	420.8	381.7	322.9	322.9	313.2
70°	4367.9	3412.1	456.7	274.0	270.8	358.8	430.6	358.8	303.4	303.4	290.3
72.5°	3585.0	2727.1	352.3	257.7	247.9	319.7	407.8	339.3	283.8	277.3	254.4
75°	2355.2	1758.3	287.1	244.7	215.3	280.5	368.6	313.2	270.8	251.2	241.4
77.5°	1154.8	789.4	241.4	215.3	185.9	244.7	336.0	296.8	254.4	234.9	228.3
80°	316.4	283.8	202.2	189.2	156.6	212.0	316.4	283.8	238.1	218.6	208.8
82.5°	179.4	176.2	163.1	153.3	130.5	212.0	319.7	283.8	225.1	221.8	189.2
85°	97.9	104.4	117.4	114.2	101.1	189.2	303.4	247.9	182.7	153.3	153.3
87.5°	39.1	48.9	58.7	65.2	68.5	140.3	228.3	189.2	140.3	117.4	117.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)